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TO: JOHN PARANGOSKY

FROM:

1. COMMENTS ON SURVIVABILITY/VULNERABILITY STUDIES FOR ADVANCED AIRCRAFT RECCE SYSTEM.

2. THE SELECTION OF THE PERFORMANCE CHARACTERISTICS OF A NEW AIRCRAFT RECCE SYSTEM DEPENDS LARGELY ON THE DEFENSES AGAINST WHICH IT MUST HAVE THE CAPABILITY TO SURVIVE. SINCE FUTURE DEFENSIVE SYSTEMS EXPECTED 10 YEARS FROM NOW CAN ONLY BE POSTULATED, IT IS IMPORTANT THAT THE SENSITIVITY OF SURVIVAL TO VARIATION IN DEFENSIVE SYSTEM PERFORMANCE PARAMETERS BE DEVELOPED. THESE SENSITIVITIES SHOULD BE DEVELOPED AND EVALUATED FROM THE REGION OF NOMINAL PARAMETER VALUES, BASED ON PRESENT DAY SYSTEMS, TO VALUES ADEQUATE TO ENCOMPASS FUTURE SYSTEMS.

3. A VARIATION ABOUT THE NOMINAL SHOULD BE INCLUDED FOR THE FOLLOWING COMPONENTS OF THE PROBLEM. COMPONENTS FOR WHICH CHARACTERISTICS WILL BE VARIED ARE:-

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NRO review(s) completed.

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PAGE 3

S E C R E T

7. THE RESULT WILL BE A SERIES OF MATRICES THAT SHOW THE
RELATIVE SURVIVABILITY AND SENSITIVITY TO DEFENSE SYSTEM
CHARACTERISTICS. THE DEFENSIVE SYSTEMS WHICH ARE CURRENTLY
DEPLOYED AND IN DEVELOPMENT WOULD BE COMPARED TO THOSE

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	5		10		15		20	

PAGE 4 S E C R E T

VARIOUS IMPROVEMENTS POSTULATED AND AN ASSESSMENT MADE OF THE TECHNICAL CREDIBILITY. THE COST IMPACT WOULD BE AN IMPORTANT AND DESIRABLE FACTOR ALSO. THIS COMPARISON OF POSSIBLE SYSTEMS VERSUS PROBABLE SYSTEMS WOULD PROVIDE PLANS AND ASSOCIATED RATIONALE WHICH COULD BE USED TO ASSESS THE "DIRECTION" THAT AN INTELLIGENT ENEMY MIGHT TAKE FOR DEVELOPMENT OF HIS FUTURE DEFENSIVE SYSTEM. BY THEN DEVELOPING A TIME FRAME OF "POSSIBLE DEVELOPMENT RATE," THE THIRD DIMENSION CAN BE ADDED WHICH THEN IDENTIFIES THE SPAN OF "OPERATIONAL FREEDOM" SPECIFIC RECONNAISSANCE SYSTEMS MIGHT ENJOY.

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